

## Kolon KOCETAL® TC701 Mineral Reinforced Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Mineral Filled

### Material Notes:

Talc reinforced, improved dimensional stability. Applications: Products for high stiffness, dimensional precision. Information provided by API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-KOCETAL-TC701-Mineral-Reinforced-Acetal-Resin.php](http://www.lookpolymers.com/polymer_Kolon-KOCETAL-TC701-Mineral-Reinforced-Acetal-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.20 %	0.20 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	ASTM D955
Melt Flow	24 g/10 min	24 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	81	81	ASTM D785
Tensile Strength	65.0 MPa	9430 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ASTM D696
Melting Point	166 Å°C	331 Å°F	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	160 Å°C	320 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 Å°C	248 Å°F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

Surface Resistance Electrical Properties	1.00e+16 ohm Metric	1.00e+16 ohm English	ASTM D257 Comments
Dielectric Constant	3.7	3.7	ASTM D150
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.0060 @Frequency 1.00e+6 Hz	0.0060 @Frequency 1.00e+6 Hz	ASTM D150

## Contact Songhan Plastic Technology Co.,Ltd.

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